

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 1. (Previously presented): A data duplicating method that connects a first
2 information processing system comprised of a first host computer and a first storage device and
3 at least one second information processing system comprised of a second host computer and a
4 second storage device through a data transfer path and copies first update data generated in said
5 first information processing system to said second information processing system,
6 wherein said second information processing system generates difference control
7 information for identifying second update data generated in said second information processing
8 system after taking over information and data processing performed by said first information
9 processing system when said first information processing system stops operating, and after
10 resumption of operation of said first information processing system, said second update data is
11 selectively copied to said first information processing system on the basis of said difference
12 control information,
13 wherein said difference control information is a bit map that indicates the
14 presence or absence of completion of data duplication of said first and second update data at a
15 plurality of individual units of data storage in each of said first and second storage devices.

1 2. (Canceled)

1 3. (Previously presented): A data duplicating method that connects a first
2 information processing system comprised of a first host computer and a first storage device and
3 at least one second information processing system comprised of a second host computer and a
4 second storage device through a data transfer path and asynchronously copies first update data
5 generated in said first information processing system to said second information processing

6 system, said first information processing system having first difference control information for
7 identifying said first update data not copied to said second information processing system,
8 wherein said second information processing system creates second difference
9 control information for identifying second update data generated in said second information
10 processing system after taking over information and data processing performed by said first
11 information processing system when said first information processing system stops operating,
12 and after resumption of operation of said first information processing system, data in a range
13 specified by said first and second difference control information is selectively copied to said first
14 information processing system,
15 wherein said first and second difference control information are a bit map that
16 indicates the presence or absence of completion of data duplication of said first and second
17 update data at a plurality of individual units of data storage in each of said first and second
18 storage devices.

1 4. (Canceled)

1 5. (Previously presented): A data duplicating method that connects a first
2 information processing system comprised of a first host computer and a first storage device and
3 at least one second information processing system comprised of a second host computer and a
4 second storage device through a data transfer path and asynchronously copies first update data
5 generated in said first information processing system to said second information processing
6 system, said first information processing system having first difference control information for
7 identifying said first update data not copied to said second information processing system,
8 wherein said second information processing system produces second difference
9 control information for identifying second update data generated in said second information
10 processing system after taking over information and data processing performed by said first
11 information processing system when said first information processing system stops operating,
12 and after resumption of operation of said first information processing system, said second update

13 data is selectively copied to said first information processing system on the basis of said second
14 difference control information,

15 wherein said first and second difference control information are a bit map that
16 indicates the presence or absence of completion of data duplication of said first and second
17 update data at a plurality of individual units of data storage in each of said first and second
18 storage device.

1 6. (Canceled)

1 7. (Previously presented): A data duplicating method that connects a first
2 information processing system comprised of a first host computer and a first storage device and
3 at least one second information processing system comprised of a second host computer and a
4 second storage device through a data transfer path and synchronously copies first update data
5 generated in said first information processing system to said second information processing
6 system,

7 wherein said second information processing system generates second difference
8 control information for identifying second update data generated in said second information
9 processing system subsequent to taking over information and data processing performed by said
10 first information processing system when said first information processing system stops
11 operating, and after resumption of operation of said first information processing system, said
12 second update data is selectively copied to said first information processing system on the basis
13 of said second difference control information,

14 wherein said second difference control information is a bit map that indicates the
15 presence or absence of completion of data duplication at a plurality of individual units of data
16 storage in each of said first and second storage devices.

1 8. (Canceled)

1 9. (Previously presented): A data duplicating system comprising a first
2 information processing system comprised of a first host computer and a first storage device, at

3 least one second information processing system comprised of a second host computer and a
4 second storage device and a data transfer path through which data transfer between said first and
5 second information processing systems is carried out, whereby said data duplicating system
6 copies first update data generated in said first information processing system to said second
7 information processing system through said data transfer path,

8 wherein said second information processing system creates difference control
9 information for identifying second update data generated in said second information processing
10 system subsequent to taking over information and data processing performed by said first
11 information processing system when said first information processing system is disabled to
12 operate, and the function to selectively copy said second update data of said second information
13 processing system to said first information processing system on the basis of said difference
14 control information when said first information processing system is enabled to operate,

15 wherein said difference control information is a bit map that indicates the
16 presence or absence of completion of duplication of said first and second update data at a
17 plurality of units of data storage in each of said first and second storage devices.

1 10. (Canceled)

1 11. (Previously presented): A data duplicating system comprising a first
2 information processing system comprised of a first host computer and a first storage device, at
3 least one second information processing system comprised of a second host computer and a
4 second storage device and a data transfer path through which data transfer between said first and
5 second information processing systems is carried out, whereby said data duplicating system
6 asynchronously copies first update data generated in said first information processing system to
7 said second information processing system through said data transfer path,

8 wherein said first information processing system produces first difference control
9 information for identifying said first update data not copied to said second information
10 processing system; and

11 said second information processing system produces second difference control
12 information for identifying second update data generated in said second information processing
13 system subsequent to taking over information and data processing performed by said first
14 information processing system when said first information processing system is disabled to
15 operate, and the function to selectively copy data in a range specified by said first and second
16 difference control information to said first information processing system when said first
17 information processing system is enabled to operate,
18 wherein said first and second difference control information are a bit map that
19 indicates the presence or absence of completion of data duplication of said first and second
20 update data at a plurality of units of data storage in each of said first and second storage devices.

1 12. (Canceled)

1 13. (Previously presented): A data duplicating system comprising a first
2 information processing system comprised of a first host computer and a first storage device, at
3 least one second information processing system comprised of a second host computer and a
4 second storage device and a data transfer path through which data transfer between said first and
5 second information processing systems is carried out, whereby said data duplicating system
6 asynchronously copies first update data generated in said first information processing system to
7 said second information processing system through said data transfer path,

8 wherein said first information processing system generates first difference control
9 information for identifying said first update data not copied to said second information
10 processing system; and

11 said second information processing system generates second difference control
12 information for identifying second update data generated in said second information processing
13 system subsequent to taking over information and data processing performed by said first
14 information processing system when said first information processing system is disabled to
15 operate, and the function to selectively copy said second update data of said second information
16 processing system to said first information processing system on the basis of said second

17 difference control information when said first information processing system is enabled to
18 operate,

19 wherein said first and second difference control information are a bit map that
20 indicates the presence or absence of completion of data duplication of said first and second
21 update data at a plurality of units of data storage in each of said first and second storage devices.

1 14. (Canceled)

1 15. (Previously presented): A data duplicating system comprising a first
2 information processing system comprised of a first host computer and a first storage device, at
3 least one second information processing system comprised of a second host computer and a
4 second storage device and a data transfer path through which data transfer between said first and
5 second information processing systems is carried out, whereby said data duplicating system
6 synchronously copies first update data generated in said first information processing system to
7 said second information processing system through said data transfer path,

8 wherein said second information processing system generates difference control
9 information for identifying second update data generated in said second information processing
10 system subsequent to taking over information and data processing performed by said first
11 information processing system when said first information processing system is disabled to
12 operate, and the function to selectively copy data in a range specified by said difference control
13 information to said first information processing system when said first information system is
14 enabled to operate,

15 wherein said second difference control information is a bit map that indicates the
16 presence or absence of completion of data duplication of said first and second update data at a
17 plurality of units of data storage in each of said first and second storage devices.

1 16. (Canceled)